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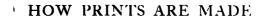
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HOW PRINTS ARE MADE

SECOND EDITION (REVISED)

BY
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INTRODUCTORY NOTE

The descriptions of the various processes which follow are not intended for technical treatises. They give the most important facts for those who know little of how prints are made, but they do not enter sufficiently into details to be of use to the professional worker.



HOW PRINTS ARE MADE

I BURIN ENGRAVING

NGRAVING is done generally upon a thin, flat copperplate. The instrument used is a small, pointed chisel, which gives a V-shaped cut. It is known as a burin or a graver. The istrength of the line is varied by the size of the burin, and by the depth of the cut. The engraver works by pushing the burin, holding it almost flat against the plate.

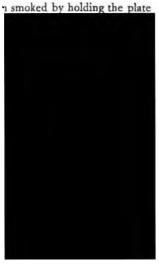
This is the process employed by Dürer and the early masters. It is often known as line engraving, but this term is not strictly correct, since any engraving process that works in line has as good a right to the title. It is also known simply as engraving, in distinction to etching, and is popularly called steel-engraving, though steel plates are rarely used, except in commercial work, copperplates having always been the medium for artistic engraving.



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ETCHING

re is generally used, though ene on zinc, iron and other mater is heated, and a ball of etch posed chiefly of wax, is most is is made smooth by means on as a dabber because it is dal the plate. When the etch ies cold it forms an extremely the surface of the plate.



t in below the surface of the plate, and per and wider this line, the heavier and it will print. This operation with the known technically as biting the plate. If st wishes to bite some lines deeper than he takes the plate from the acid and covers as that have been bitten deeply enough a liquid varnish known as stopping-out. This is applied with a brush. When as are thus stopped out, the plate is rein the acid and the biting continues in the ped lines. When all the lines have been to the required depth, the plate is taken he acid, the etching-ground is removed, plate is ready for the printing.

Ш

AQUATINT

practically etching. The ground is of a nature, which leaves minute interstices which the acid may penetrate. The laid on with a brush, as if the artist were a wash-drawing. When the ground is d and the plate printed from, the result nt which gives the appearance of a draw-le upon the paper with a brush and ink.



ΙV

FT-GROUND ETCHING

ndicates, this is done with a sol of the usual hard etching-ground per is placed upon the soft ground is then made upon the paper with hen the paper is removed it takes ay with it wherever the pressure as been applied. This leaves the 1, and the biting is then done as hing.



gives the printed line a soft, blurred apance. If the burr is removed with a per, the line that remains differs little from tched line. Dry-point work is often used onjunction with etching to give finishing nes. It also gives beautiful results when by itself.

VΙ

MEZZOTINT

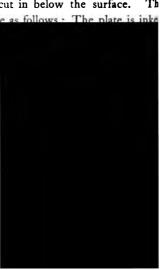
also is done upon a copperplate, but it es greatly from the previous processes. The : is first prepared with an instrument known nezzotint rocker. The rocker has a curved with fine teeth. It is rocked back and forth 1 the plate in every direction, until the surof the plate is a mass of little dots, each of ch has burr raised by the teeth of the rocker. re plate were printed from in this condition, ould give a uniform black surface on the The artist now takes a scraper and ks upon the plate by scraping away the zotint ground. Wherever he scrapes, part he work of the rocker is removed, and this ion of the plate will print lighter. By or less scraping he may get any tone he

the blackest printer's ink to white he works from black to white is white to black, as in the previous

VII

TING FROM COPPERPLATES

raving, etching, aquatint, dry zzotint, the method of printing he work on the plate is not raise cut in below the surface. Th



hipeen inked and wiped. The action of the rag draws some of the ink out of the lines, leaving oit upon their edges, which, in the print, gives a rich effect somewhat akin to dry-point.

VIII

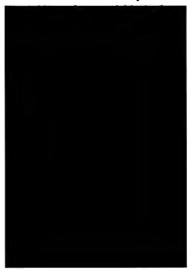
WOOD-ENGRAVING

This differs entirely in principle from the prosecses previously described. In those, the
is time which holds the ink for the printing is cut
that the plate, and it is therefore below the sursecse of the copper. In wood-engraving the
rengraver cuts away the part of the block that is
that to be printed from, and the part that holds
the ink for the printing is therefore raised above
the surrounding surface. The wood-block upon
which the engraving is done must be hard and
telose-grained. The instruments are chiselthaped, or are sharpened to a fine edge. A knife
may also be used, and, in fact, any tool that
will cut into the surface of the wood.

The nature of wood-engraving gives the engraver the choice of two methods of procedure, or a combination of the two. He may cut away the wood so as to leave narrow lines raised above the arrace, resembling, when printed, the lines made



a pen on the paper. He may, on nd, cut lines in the wood-block in ay that he would cut them in a cop t the lines so cut will not show blac bequent printing, because they are b rface of the block and cannot, therefe ink. As the ink is held by the s ch side of the line, the result in the p white line on a black ground. This hite line is the true method for th graver, as it is more in the spirit of h an the black line, which requires mor



tone is covered with acid, in order to fix the lrawing, so that it will resist well in the printng; but the acid does not remain long enough ipon the stone to eat into its surface. graphy there is neither a raised nor an incised The printing is done from a perfectly flat stone, and the process differs, therefore, entirely from all the engraving or etching processes. order to print impressions, the stone is moistened with water, and as water and grease do not combine, the parts drawn upon with the greasy crayon repel the water, while the parts not drawn spon absorb it. A roller charged with greasy ink is now passed over the surface, and, for the same reason as before, the ink is repelled by the wet parts and adheres to every part drawn upon. A sheet of damp paper is placed on the stone, which is then passed through the press. The ink becomes transferred to the paper and produces an exact facsimile of the drawing on the ttone.

The lithographer may work on the stone with a scraper, for the purpose of taking out parts of his drawing, and he may even do his entire trawing by this method. In this case, he backens the surface of the stone with a crayon and works from dark to light, as in ordinary perzonint.



ay also work on the stone v reasy ink. This process g the effect of a wash-draw is called *lithotint*.

cially prepared paper may al n lithography. When the it is transferred from the pape printing is then done in the drawing had been made upo st place.



In lithography the wearing is different from the wearing in the other processes. The stone itself does not wear, but the drawing upon it becomes used up, the grease which has penerated the surface becoming gradually exhausted.

ΧI

COLOUR-PRINTING

Wood-engraving and lithography are the processes that have been used most generally for printing in colours. The printing in this case is done from a number of stones or blocks. Each stone or block has on it that part of the drawing which is to be printed in a particular colour, and it is inked with the colour desired. The sheet of paper is run through the press for each print as many times as there are colours, the stone or block being changed each time. Colour-printing from copperplates may also be done in the same way.

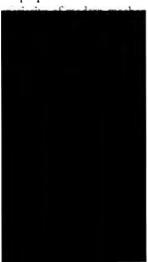
Printing in a number of colours may be done from a single plate, but, in this case, the different parts of the plate must be coloured separately, and the printer becomes himself an artist painting upon the plate.



XII

AND INTERPRETATIVE PRINTS

the process by which they nay be divided into two br al and interpretative. An in roductive print is a copy done the painting or other work else, and holds, therefore, slation in literature. Such pr alue before the invention of pheir purpose is now made usel



one person. The artist may, of course, work the plate, block or stone from one of his own ntings or drawings, but this does not take ay from the originality of the result, because painting or drawing is his own, and he rely exercises his right to put his conception another form, as he would do if he made a ter-colour after one of his paintings, or a nting after one of his drawings.

It is important that the relationship of the ist to the print, in the case of original work, made clear, because even among artists themves this relationship is often not understood. hen a print by Dürer or Rembrandt is shown, question is sometimes asked: "Where is original of that?" The answer is that the rson is looking at the original. The plate itfis not the original work of art, as has somenes been said, because it is incomplete. When eartist is working upon the plate, he is thinkcontinually of the prints that are to be made m it and he does his work always with referce to them. The plate itself is only part of e process and the result aimed at is obtained ly when the prints are made. The plate may destroyed afterwards and still the work of texists, as it was intended to exist, in each of prints. The plate is merely one of the

class the artist winner. a pen or a fine brush, and the cuts the wood away from betw , leaving them to be printed from the artist's work on paper. Nov artist may make an original drawin wood-block, it is evident that the s a new element, coming, as he c en the artist and the print. st may so dominate the whole proc difficult to refuse the title of origin Under the direction of a ürer, for example, the engraver be ost a tool in the artist's hands. erely to cut away mechanically the not wanted, leaving the drawing

1 -Love the surrounding su

opean case. The man who makes the deis, of course, the dominating personage in trio, and it is he who signs the work, and o deservedly gets the credit of it; but we st remember that he has his assistants, though ir names in most cases have been lost to us. e prints which result from this combination y be properly described as original, because y are the result aimed at by the artist and his istants. The drawing made by the artist in first place is pasted upon the wood-block, I is consequently destroyed in the subsequent cesses. Nothing remains but the prints to to the artist's idea.

XIII

TECHNICAL TERMS

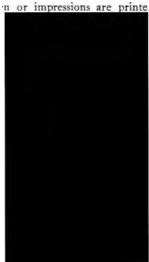
HE words print and impression designate the inted sheet of paper after it has received the print of the plate, wood-block or lithographic one. Proof has often the same meaning, ough it is more customary to confine its use the early, finer impressions. A trial-proof is impression taken during the course of the ork in order that the artist may see the effect his plate when printed from.



is a reproduction of a prin r than the artist. The word oneously used in the sense o 7.

7 is applied to prints as to bot vhole number of impressions ne.

hange is made in the work of ock or stone after one or more been printed, the impression e change are called the *first* nted after the change, the searchanges are made in the work.



made an engraving after Raphael, we mean that he made an engraved copy of one of Raphael's paintings or drawings.

On old prints, and sometimes on modern ones, the following inscriptions occur:

Fecit, or abbreviated to ft., fec., fe., f., meaning made. Thus, Claudius fecit means Claude made it. The imperfect faciebat of the tame verb is also used in the same way.

Invenit., inve., inv., in. meaning invented.

Delineavit, delin., deli., or del. meaning

Sculpsit, sculps., sculp., sc., and also sculpebat meaning engraved.

Prints upon which these inscriptions are found are not necessarily original, as sometimes the engraver considered himself the important tersonage and did not mention the name of the intentiate whose work he interpreted, while at other thines he looked upon himself merely as a copyist and did not therefore sign his own name.

Some etchers have signed fecit aqua forti, the meaning made it in etching, which may be taken taken proof that the work is original unless accommended by other inscriptions showing the contrary.

no Pinxit, pinx., pin., p., and pingebat mean

trations of the above, if we fine x., Drevet sc. on a print, meaning nted it, Drevet engraved it, we know that is not an original; while C. Vistos, meaning, C. Visscher drew and the world would show us at once the world y Visscher's own, and consequently too So, too, Nanteuil pin. et sculp. showens all made the engraving after one of emintings and that it is, therefore, and the world with the above to as Nanteuil ad vivum sculpebat of ey tell. et sculp., the ad vivum meaning in In these cases the work is, of course, ring

rds cum privilegio, meaning with per- kin nify that the owner of the picture has ide ission to have it energyed abbreviations lithog., litho., and lith., d on French lithographs in two different somewhat perplexing to the uninitiated. abbreviation follows an artist's name, it that the lithograph is by him, as Eugène lith., and Lith. par Eugène Isabey has ne signification; but when the word lith. wed by the word de and a name, this that the name is that of the printer, as Lith. vercier. Thus, if we find the inscriptions Isabey del.—Lith. de C. Motte, we are infer that the print is not an original by. The meaning is that the work was on stone by Isabey and printed at the g establishment of C. Motte.

narques are small sketches or scratches of nd on the margin of the plate or stone of the principal composition. It is rare them on works by the best masters. cases occur, the remarques are generally sketches done half unconsciously by the or scratches by which he has tested his or his crayon. They are generally refrom the plate or stone before the printthe regular edition and prints on which re found are therefore as a rule early imms. But as large numbers of worthless tetchings with remarques especially